

## **MODIS TECHNICAL TEAM MEETING**

**March 4, 1999**

Vince Salomonson chaired the MODIS Technical Team Meeting. Present were Ken Anderson, Bill Barnes, Barbara Conboy, Al Fleig, Steve Kempler, Michael King, Ed Masuoka, Harry Montgomery, Bob Murphy, Dan Tarpley (NOAA), Eric Vermote, and Deborah Howard.

### **1.0 SCHEDULE OF EVENTS**

Oceans Meeting	Early March
PI Processing Meeting (GSFC)	March 17, 1999, 9:30 a.m. Building 28, Room E210
MODLAND/SDST Meeting (GSFC)	March 30–31, 1999 Building 28, Room E210
PI Processing Meeting (GSFC)	April 14, 1999, 9:30 a.m. Building 28, Room E210
Next MODIS Science Team Meeting (GSFC area)	May 4–5, 1999 (NEW Dates)
PI Processing Meeting (GSFC)	May 12, 1999, 9:30 a.m. Building 28, Room E210
SAFARI Validation/Coordination Meeting (Boulder)	May 12–14, 1999
Mini-SWAMP Meeting at EOS-IWG (Vail)	June 15–17, 1999
SAFARI Program Implementation Meeting (Gaborone, Botswana)	July 26–30, 1999

### **2.0 MINUTES OF THE MEETING**

#### **2.1 Terra Launch Date**

Michael King mentioned that the Terra launch date might move from July 15 to July 28.

## **2.2 Instrument Report**

Bill Barnes reported that the SDSM solar screen will be replaced on both PFM and FM1. He said that the gains for the FM1 SDSM have been measured and six of the nine bands are correct. The other three were outside the range of the measurement system. Barnes commented that Harry Montgomery is working on the diffuser and examining whether scattered light off the diffuser is negligible.

Barnes reported that PFM is complete, except for the planned replacement of the SDSM screen. He said that a meeting with Santa Barbara has been scheduled for next week to discuss completion of FM1 testing. Ken Anderson added that the PC drift still is a problem and that additional thermal vacuum testing may be required before delivery in June.

## **2.3 GDAAC Report**

Steve Kempler reviewed GDAAC Notes for the MODIS Technical Team Meeting (3/5/99) (Attachment 1). He thanked Ed Masuoka for his assistance in establishing the schedule for delivery of updated versions of PGEs 01-02-03 to the GDAAC. Vince Salomonson asked if the ECS and GDAAC E-T-E tests were successful. Kempler agreed that functionality was shown, but performance and operability was lacking. The E-T-E tests were deemed successful.

Salomonson asked whether PGEs 01, 02, and 03 would be ready for launch. Masuoka said he was optimistic, but they are integrating a new version of PGE01 right now, and the final version of PGE02 will be received from MCST in late May. An improved version of PGE03 due in late March will be incorporated if possible.

## **2.4 SDST Report**

Masuoka provided further information on the Launch Ready PGE Status - 3/4/99 (Attachment 2). It is a revised schedule that includes launch-ready information for all products. "Further improvement necessary for launch" is indicated in red and "new delivery highly recommended" is indicated in lavender. The March and May deliveries noted above are shown in this chart.

Salomonson asked whether MODAPS is running. Masuoka replied yes that the database is tuned enough to go to production. Masuoka also reported that some Y2K testing still is to be done. Salomonson asked whether documentation on how data quality is checked is needed for ISO 9000. Kempler replied that such documentation already is included in the procedures.

Masuoka reported that Vermote had requested continuous Ops from which performance could be extracted. Vermote commented the Land group would like continuous testing after March 16 (a second testing after the system database tuning to see improvements). Masuoka also noted that Yoram Kaufman's E-T-E testing is scheduled for April 22 and Version 0 MODAPS is to be tested on March 16. Masuoka commented that the next PI Processing meeting agenda would include discussion about creating early MODIS images for release shortly after launch.

## **2.5 Agreements/Protocols**

Salomonson asked about the status and data release agreements with NOAA. Murphy replied that there is no previous agreement on how to proceed. A draft MOU is being worked by Murphy, Tarpley, Legg, and Masuoka.

Murphy asked about the potential release of MODIS data by the Project using the on-site direct read out system belonging to Code 935. Salomonson stated that data is not to be released without the approval of MODIS scientists. Release of products for the public will only be done with the approval of the Terra Project Scientist, Yoram Kaufman.

Murphy reported about the PI Processing working agreement with ESDIS; the conveyance memo from SDDT's and Discipline leaders will be signed next week (the week of March 8–12).

## **2.6 MAST**

Barbara Conboy confirmed that the next Science Team Meeting is scheduled for May 4–5 with May 6 available for potential Discipline Group and Splinter Group meetings. Conboy announced that Michael Hohner would be MAST's new Modarch Administrator beginning on March 15 and that Kevin Ward would be the Web Master for the Earth Observatory.

## **2.7 Validation Plans**

Salomonson asked about validation efforts. King reported that the Atmosphere Validation Plan update is nearly complete, with minor comments and updates expected within the week from collaborators. The Land Validation Plan is in fine shape; the Oceans Validation Plan has not yet been completed. Barnes mentioned that Landsat-7 and Terra would be in the same physical orbit plane and lined up in formation flying  $\pm 15$  minutes. Murphy commented that this would be helpful to the validation efforts.

## **2.8 MODLAND**

Eric Vermote reported that launch-ready code, MODAPS test results, early products, and validation are topics scheduled for the upcoming MODLAND/SDST meeting on March 30–31. He mentioned that Chris Justice met with the PM Project Scientist in regards to Land application for PM data for USGS. Vermote noted that Landsat-7 is scheduled to launch on April 15 and that the Landsat-7 data set will be of critical importance for Land validation at the EOS validation core sites. He emphasized that the Land discipline group is pushing for continuous testing on the MODAPS system from March 16–April 12; he stated that such testing is critical.

## **2.9 ATBDs**

Michael King reported that many Land and Oceans ATBDs that were supposed to be updated over a year ago have yet to be updated and submitted. These documents serve not only to

communicate our algorithms to the international scientific community, but also serve as a reference for MODIS algorithms that are of benefit to the IPO VIIRS/AGI studies.

### **3.0 ACTION ITEMS**

#### **3.1 New Action Items**

1. Barnes: Work with Wayne Esaias to complete the written and viewgraph versions of the Oceans Validation Plan.

#### **3.2 Action Items Carried Forward**

1. Murphy: Create a mechanism for coordinating MODIS operations and other schedules that includes an interactive listing. It should be more than a passive posting of schedules on the World Wide Web. Such an interactive schedule could be used by MODIS science discipline teams to coordinate field campaigns or by the operations group to coordinate MODIS activities with the other Terra instruments' activities.

Status: This item remains open.

2. Murphy: Clarify the data release agreements between NASA and NOAA on MODIS data, including MODIS requirements and which of these requirements NOAA will accommodate. Discuss these items with Legg and Tarpley of NOAA.

Status: This item remains open. Draft MOU is being worked by Murphy, Tarpley, Legg, and Masuoka.

3. Conboy and Howard: Plan for the next MODIS Science Team meeting in May.

Status: This item remains open.

4. Heney and Howard: Develop a weekly MODIS news page linked to the MODIS home Web site. It should include hot items and reflect weekly progress.

Status: This item remains open.

5. Murphy: Follow up on the status of the PI Processing working agreement with ESDIS.

Status: This item remains open. The conveyance memo from SDDT's and Discipline leaders will be signed next week (the week of March 8–12).

6. Murphy: Investigate the status of direct broadcast and present an update to the Technical Team.

Status: This item remains open.

7. Murphy: Coordinate a MODIS approach for radiance-to-brightness temperature conversions.

Status: This action remains open.

8. Masuoka: Submit an EOS-PM Data Product Update to ESDIS.

Status: This action item remains open.

9. Masuoka: Examine status of DAO ancillary products for MODIS.

Status: This item remains open.

### **3.3 Closed Action Items**

1. Evans and Eicorn: Look into what can be done at Valley Forge without taking the instrument off the spacecraft.

Status: This item is closed. No feasible solution was found.

2. Conboy: Work with Murphy on a launch invitation list; invite PAO to participate.

Status: This item is closed. Conboy submitted the MODIS Terra Launch Invitation.

3. Guenther: Deliver a schedule for an earlier date on Level 1 code. In addition work on, if possible, a more modularized version of the Level 1B code to minimize any problems from forthcoming software changes.

Status: This item is closed. Guenther provided this schedule to an early January premeeting to the SDDT meeting held on January 13.